AMENDMENTS TO THE CLAIMS

- (Currently Amended) In a communications network, a A system for providing wireless data service, the system comprising:
 - a plurality of mobile stations;
 - at least one packet data network; and
 - a wireless access integrated node (WAIN) directly intermediating between coupled to the plurality of mobile stations via a radio interface and coupled to the at least one packet data network via a network interface to provide a-an intermediating wired and/or wireless dedicated broadband connection between the plurality of mobile stations and the at least one packet data network, wherein the dedicated broadband connection is to implement a simplified protocol structure, wherein the WAIN automatically configures itself to minimize interference between the plurality of mobile stations and the at least one packet network, the WAIN having: a plurality of mobile data transmission modules and signaling modules for sending, processing, and receiving data packets; a plurality of interfaces and ports for sending messages to and receiving messages from at least one packet data network, systems, and mobile stations interconnected with the WAIN; a database containing subscription, operating, and charging information for the plurality of mobile stations attached to the WAIN; and a main controller to collect charging data and coordinate and control the mobile data transmission modules, signaling modules, interfaces, and databases;

a radio interface interconnecting the plurality of mobile stations and the WAIN;

and a network interface interconnecting the WAIN and at least one packet

data network.

- 2. (Previously Presented) The system of claim 1, wherein the packet data network comprises the Internet.
- 3. (Previously Presented) The system of claim 1, wherein the packet data network comprises an intranet.
- 4. (Previously Presented) The system of claim 3, wherein a content server is attached to the intranet.
- (Currently Amended) The system of claim 175, wherein the plurality of mobile data transmission modules comprises a Packet Data Convergence Protocol
 (PDCP) module.
- (Currently Amended) The system of claim 175, wherein the plurality of mobile data transmission modules comprises a Radio Link Control / Medium Access Control (RLC/MAC) module.
- 7. (Currently Amended) The system of claim 175, wherein the plurality of mobile data transmission modules comprises a Transceiver (TRX)module.
- 8. (Currently Amended) The system of claim 475, wherein the plurality of signaling modules comprises Radio Resource Management.
- 9. (Currently Amended) The system of claim 475, wherein the plurality of signaling modules comprises General Packet Radio Service (GPRS) Mobility Management.
- (Currently Amended) The system of claim 475, wherein the plurality of signaling modules comprises Session Management.

- 11. (Currently Amended) The system of claim 475, wherein the plurality of interfaces comprises a voice interface.
- 12. (Currently Amended) The system of claim 475, wherein the plurality of interfaces comprises a local information system interface.
- 13. (Currently Amended) The system of claim <u>475</u>, wherein the plurality of interfaces comprises an appliance control interface.
- 14. (Currently Amended) The system of claim 475, wherein the plurality of interfaces comprises an intranet gateway.
- 15. (Currently Amended) The system of claim 475, wherein the plurality of ports comprises an RJ11 port for a fixed wire telephone connection.
- 16. (Currently Amended) The system of claim 475, wherein the system interconnected with the WAIN comprises a local information system.
- 17. (Currently Amended) The system of claim 16, wherein the WAIN is to has means for remotely synchronizing synchronize a personal digital assistant with its host program on the local information system.
- 18. (Currently Amended) The system of claim 16, wherein the WAIN has further comprises a voice recognition capability means for to audibly replay relaying service request commands from the mobile station to the local information system.
- 19. (Currently Amended) The system of claim 16, wherein the WAIN has a further comprises text-to-speech capability to means for audibly relaying replay information from the local information service to the mobile station.
- 20. (Cancelled)

- 21. (Currently Amended) The system of claim 201, wherein the WAIN has a further comprises voice recognition capability to means for audibly relaying replay remote control commands from the plurality of mobile stations (station to the an application command system).
- 22. (Currently Amended) The system of claim 2021, wherein the WAIN has a further comprises text-to-speech capability to means for audibly relaying replay an appliance status report delivered from the appliance control system to the plurality of mobile stations station.
- 23. (Currently Amended) The system of claim 1, wherein the system interconnected with the WAIN <u>further comprises</u> a wireless data controller.
- 24. (Previously Presented) The system of claim 1, wherein the radio interface comprises a GPRS radio interface.
- 25. (Previously Presented) The system of claim 1, wherein the network interface comprises an Internet Protocol (IP) interface.
- 26. (Currently Amended) The system of claim 1, further comprising including means for enabling a mobile station a user to obtain a temporary subscription to the WAIN through a dynamic registration and cancellation process, wherein a in which user's mobile station's secret subscription identity of a mobile station of the user is linked with the user's mobile station's mobile an equipment identity of the mobile station of the user.
- 27. (Currently Amended) The system of claim 475, wherein the plurality of mobile data transmission modules are to modulate includes means for modulating data packets.

- 28. (Currently Amended) The system of claim 175, wherein the plurality of mobile data transmission modules are to compress includes means for compressing data packets.
- 29. (Currently Amended) The system of claim 475, wherein the plurality of mobile data transmission modules are to encrypt includes means for encrypting data packets.
- 30. (Currently Amended) The system of claim 175, wherein the plurality of mobile data transmission modules are to multiplex includes means for multiplexing data packets.
- 31. (Currently Amended) The system of claim 175, wherein the plurality of mobile data transmission modules are to correct includes means for correcting errors in data packets.
- 32. (Currently Amended) The system of claim 475, wherein the plurality of mobile data transmission modules are to segment includes means for segmenting data packets.
- 33. (Currently Amended) The system of claim 175, wherein the plurality of mobile data transmission modules are to control includes means for controlling the sequence of data packets.
- 34. (Currently Amended) The system of claim 1, wherein the WAIN <u>is further to support includes means for supporting</u> mobile stations roaming between a local WAIN environment and a public mobile network.
- 35. (Currently Amended) The system of claim 1, wherein the WAIN is further to support includes means for supporting mobile stations roaming between different WAIN systems.

- 36. (Currently Amended) The system of claim 1, wherein the WAIN is further to provide includes means for providing wireless data services in a community service area located within cells of a public network when the WAIN is clustered with several other WAIN systems.
- 37. (Previously Presented) The system of claim 1, wherein the WAIN supports mobile stations roaming between different WAIN systems.
- 38. (Currently Amended) The system of claim 1, wherein the WAIN is further to configure includes means for configuring the WAIN as a network node where no specified system parameters are present.
- 39. (Currently Amended) In a communications network, a A device for providing access to wireless data services, the device comprising:
 - a plurality of mobile data transmission modules and signaling modules for sending, processing, and receiving data packets;
 - a plurality of interfaces and ports for sending messages to and receiving messages from at least one packet data network, systems, and a plurality of mobile stations interconnected with the device;
 - a database containing subscription, operation, and charging information for the plurality of mobile stations attached to the device; and
 - a main controller to collect charging data and coordinate and control the mobile data transmission modules, signaling modules, interfaces, port, and database; wherein the device directly intermediating between the plurality of mobile stations and at least one packet data network to provide a wired and/or wireless dedicated broadband connection, wherein the dedicated broadband connection is to implement a simplified protocol structure,

wherein the device automatically configures itself to minimize interference between the plurality of mobile stations and the at least one packet network.

- 40. (Currently Amended) The device of claim 39, wherein the packet data network comprises the internetInternet.
- 41. (Previously Presented) The device of claim 39, wherein the packet data network comprises an intranet.
- 42. (Currently Amended) The device of claim 41, wherein a content server is attached to the internetInternet.
- 43. (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules comprises a Packet Data Convergence Protocol (PDCP) module.
- 44. (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules comprises a Radio Link Control / Medium Access Control (RLC/MAC) module.
- 45. (Previously Presented) The device of claim 39, wherein the plurality of mobile data transmission modules comprises a Transceiver (TRX) module.
- 46. (Previously Presented) The device of claim 39, wherein the plurality of signaling modules comprises a radio resource management module.
- 47. (Previously Presented) The device of claim 39, wherein the plurality of signaling modules comprises a General Packet Radio Service (GPRS) mobility management module.
- 48. (Previously Presented) The device of claim 39, wherein the plurality of signaling modules comprises a session management module.

- 49. (Previously Presented) The device of claim 39, wherein the plurality of interfaces comprises a voice interface.
- 50. (Previously Presented) The device of claim 39, wherein the plurality of interfaces comprises a local information system interface.
- 51. (Previously Presented) The device of claim 39, wherein the plurality of interfaces comprises an appliance control interface.
- 52. (Previously Presented) The device of claim 39, wherein the plurality of interfaces comprises an intranet gateway.
- 53. (Previously Presented) The device of claim 39, wherein the plurality of ports comprises a Registered Jack number 11 (RJ11)port for a fixed wire telephone connection.
- 54. (Previously Presented) The device of claim 39, wherein the system interconnected with the device comprises a local information system.
- 55. (Previously Presented) The device of claim 39, further including a voice recognition subsystem.
- 56. (Previously Presented) The device of claim 39, further including a text-to-speech synthesis subsystem.
- 57. (Previously Presented) The device of claim 39, wherein the system interconnected with the device comprises a local appliance control system.
- 58. (Previously Presented) The device of claim 39, wherein the system interconnected with the device comprises a wireless data collector.
- 59. (Previously Presented) The device of claim 39, wherein the plurality of interfaces comprises a radio interface including a GPRS radio interface.

- 60. (Previously Presented) The device of claim 39, wherein the plurality of interfaces comprises a network interface including an IP interface.
- 61. (Currently Amended) The device of claim 39, wherein the plurality of mobile data transmission modules are to modulate includes means for modulating data packets.
- 62. (Currently Amended) The device of claim 39, wherein the plurality of mobile data transmission modules are to compress includes means for compressing data packets.
- 63. (Currently Amended) The device of claim 39, wherein the plurality of mobile data transmission modules are to encrypt includes means for encrypting data packets.
- 64. (Currently Amended) The device of claim 39, wherein the plurality of mobile data transmission modules are to multiplex includes means for multiplexing data packets.
- 65. (Currently Amended) The device of claim 39, wherein the plurality of mobile data transmission modules are to correct includes means for correcting errors in data packets.
- 66. (Currently Amended) The device of claim 39, wherein the plurality of mobile data transmission modules are to segment includes means for segmenting data packets.
- 67. (Currently Amended) The device of claim 39, wherein the plurality of mobile data transmission modules are to control includes means for controlling the sequence of data packets.
- 68. (Currently Amended) The device of claim 39, further including means for eonfiguring configures the device as network node where no specified system parameters are present.

Claims 69-74 (Cancelled)

- 75. (New) The system of claim 1, wherein the WAIN comprises:
 - a plurality of mobile data transmission modules and signaling modules for sending, processing, and receiving data packets,
 - a plurality of interfaces and ports for sending messages to and receiving messages from at least one packet data network, systems, and mobile stations interconnected with the WAIN,
 - a database containing subscription, operating, and charging information for the plurality of mobile stations attached to the WAIN, and
 - a main controller to collect charging data and coordinate and control the mobile data transmission modules, signaling modules, interfaces, and databases.